• Briefly explain why HF is a weaker Brønsted acid than HI and a stronger acid than H <sub>2</sub> O.	Marks 2
F is more electronegative than O, so the H–F is more polarised bond than the O–H. This facilitates dissociation into $F^-$ and $H^+$ ions.	
I is much larger atom than F, so the H–I bond is much longer and weaker than H–F, so HF is weaker acid than HI.	